



Attorney Docket No. FR-AM1888

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

5 Applicant : PRADEL, Jean-Laurent Group Art Unit: (not yet assigned)

Serial No.: 10/671,758 Examiner: (not yet assigned)

10 Priority Documents: FR 02/11992

For: COEXTRUSION TIE FOR POLYESTER BASED ON COGRAFTED
METALLOCENE POLYETHYLENE AND LLDPE AND ON METALLOCENE
POLYETHYLENE

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PRELIMINARY AMENDMENT

20 Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

25 Sir:

Responsive to the NOTICE TO FILE CORRECTED APPLICATION PAPERS,
and prior to examining this application, please enter the following amendments to
the application. Attached find:

- 30 1. A clean substitute specification is attached – as required.
2. A new Declaration compliant with 37 CFR 1.63 is also attached.
3. A copy of the Notice To File Corrected Application Papers

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In The Specification:

5 The Specification was amended to add headings, to comply with US patent practice. It is believed no new matter was added by these amendments.

 The following claim of priority is added at the beginning of the application, as described in the previously submitted Declaration: "This application claims benefit, under U.S.C. §119 or §365 of French Application Number 02/11992, filed
10 September 27, 2002."

 A Substitute Specification is attached incorporating these amendments.

In the Claims

1. (original) A coextrusion tie, which comprises:
 - 5 - 5 to 35% by weight of a polymer (A) itself composed of a blend of
80 to 20% by weight of a metallocene polyethylene (A1) with a
density of between 0.863 and 0.915 and of 20 to 80% by weight of
a non-metallocene LLDPE polyethylene (A2) with a density of
between 0.900 and 0.950, the blend of polymers (A1) and (A2)
10 being grafted by a grafting monomer chosen from unsaturated
carboxylic acids and their derivatives, the content of the grafting
monomer in said blend being between 30 and 100 000 ppm,
preferably between 600 and 5 000 ppm;
15 - 95 to 65% by weight of metallocene polyethylene (B) homo- or
copolymer, the comonomer of which comprises 3 to 20 carbon
atoms, preferably 4 to 8 carbon atoms, the density of which is
between 0.863 and 0.915 and the MFI, melt flow index, of which,
measured under 2.16 kg at 190°C according to Standard ASTM D
1238, is between 0.5 and 30, preferably between 3 and 15, g/10
20 min;
the total forming 100%, the blend of (A) and (B) being such that its MFI is
between 0.1 and 15, preferably between 1 and 13, g/10 min.
2. (original) The tie as claimed in claim 1, the adhesive strength of which is
25 increased by 5 to 50% between the time $t=0$ corresponding to its
application immediately after its extrusion and the time $t=8$ days.
3. (presently amended) The tie as claimed in ~~either one of the preceding claims~~
30 claim 1, wherein the grafting monomer is maleic anhydride.
4. (original) The tie as claimed in claim 1, which additionally comprises an
ethylene/alkyl (meth)acrylate copolymer (C).
5. (presently amended) The tie as claimed in ~~one of the preceding claims~~
35 claim 1, wherein the MFI of A is between 0.1 and 5 g/10 min (ASTM D
1238 at 190°C under 2.16 kg).
6. (original) A multilayer structure, which comprises a layer (L) comprising
40 the tie of any one of the preceding claims and a layer (E) directly attached
to one of the two faces of said layer (L), said layer (E) being a polyolefin or
polyester layer.
7. (original) The multilayer structure as claimed in claim 6, wherein a layer
45 (F) is directly attached to the second face of the layer (L), the layer (L)
being sandwiched between the layers (E) and (F), said layer (F) being

either a polymer layer, the polymer being chosen from the group of the polyamides, saponified copolymers of ethylene and of vinyl acetate (EVOH), polyolefins and polyesters, or a metal layer.

- 5 8. (original) The multilayer structure as claimed in claim 7, wherein the layer (E) is a polyester copolymer layer and the layer (F) is an EVOH layer.
9. (presently amended) An object, which comprises a structure as ~~claimed in one of claims 6 to 8~~ in claim 1.
- 10 10. (original) The object as claimed in claim 9, which is a bag, a bottle, a container, a pipe or a hose.
11. (presently amended) Use of the structure as claimed in ~~one of claims 6 to 8~~ claim 6 for manufacturing films or sheets.
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